Appendix A

Input Data

Results of first term	P and previous column	FALSE	TRUE	TRUE	TRUE	FALSE												
	Q and Disjunctive	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	
Disjunctive of	first three	TRUE	TRUE	TRUE	FALSE													
	Not R and Not S	TRUE	FALSE	FALSE	FALSE													
	Not R and S		TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	
Term 1	R and not S	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FAISE	FALSE	FAISE	TRUE	FALSE	FALSE	FALSE	TRIF	FALSE	·

Second Term Results of Second Term P and not Q and not R and not S

FALSE FALSE

	Results of Third Term	Not P and Disjunctive	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE								
	Disjunctive of	first two	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE
	Q and	not R and not S	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE						
Term 3	Q and	R and not S	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE						

Combined Terms Constituting the Schema

Schema Results	Disjunctive of all three terms	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE
chema	Term 3	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE								
Combined Terms Constituting the Schema	Term 2	FALSE	TRUE	FALSE													
Combined Terms	Term 1	FALSE	TRUE	TRUE	TRUE	FALSE											

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Simplified Equivalent Circuit

Output of Simplified Logic	Disjunctive of first and third terms	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE
P and	S and not R	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE								
	P and S	FALSE	TRUE	FALSE	TRUE	FALSE	TRUE	FALSE	TRUE								
	and not S	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE

Output of
Simplified Logic
FALSE
FALSE
FALSE
TRUE
FALSE

Output of Full Logic FALSE FALSE FALSE TRUE FALSE TRUE FALSE FALSE FALSE TRUE TRUE TRUE

Appendix B

The truth-tables for the schemata S and S^* exhibit the same profile of 1 and 0 as outputs, and are therefore logically equivalent.

pq rs	S: [-p(qr-s) v q-r-s) v] S*: c	S* : q-s v p-rs				
1111		0			0		
1110			1	•	1		
1101 ·			1		1		
1100			1	1			
1011		0			0		
1010		0			0		
1001		1				1	
1000		0			0		
0111		0			0		
0110	1						
0101		0			0		
0100	1				1		
0011		0			0		
0010		0			0		
0001		0			0		
0000	·	0			0		